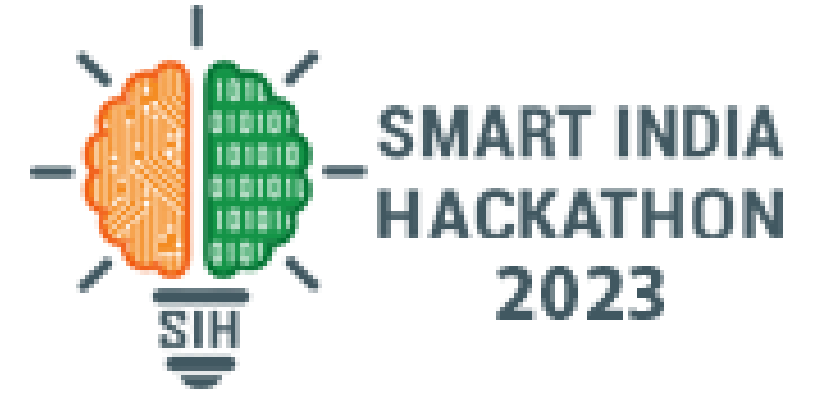


# DETAILS OF TEAM AND PROBLEM STATEMENT



Organization: Govt of Himachal Pradesh

Problem Statement ID: SIH1383

Problem Statement: Optimizing Doctor Availability and Appointment Allocation in Hospitals through Digital Technology and AI Integration

Team Name: Brute Force

Team Leader Name: Syed Owais Nawaz

Institute Code (AISHE): U-0108

Institute Name: Jamia Millia Islamia, New Delhi

Theme: MedTech / BioTech / HealthTech

# IDEA DETAILS

## Problems:

- Inefficient appointment scheduling in hospitals.
- Difficulty in tracking real-time doctor availability.
- Lack of seamless transitions between availability and appointment locations.
- Patient wait times due to scheduling delays.

## Solutions:

- Combine face detection and GPS technology.
- Use face detection for indoor doctor presence tracking.
- Utilize GPS for outdoor location tracking.
- Implement an RNN for appointment scheduling prediction.
- Enable real-time updates and dynamic scheduling

## Use Cases:

- Doctor availability.
- Emergency room scheduling for timely patient care.
- Specialized department scheduling for specific medical needs.
- Outpatient Surgery Scheduling
- General check-up and routine consultations.

## Dependancies

- Access to accurate Healthcare Data.
- Data Privacy and Security.
- Inaccurate Face Detection and unavailability of GPS.
- Lack of Historical Data.
- Insufficient testing of Data.

## Tech Stack:

- React Js – Front End
- Node Js – Back End
- Mongo DB – Database
- OpenCV, face detection libraries
- Maps API
- Sheduling and DL algorithms( RNN)

# TEAM MEMBER DETAILS

Team Leader Name: Syed Owais Nawaz

Branch: BTech Stream: CSE Year: III

Team Member 1 Name: Mohd Ravish

Branch: BTech Stream: CSE Year: III

Team Member 2 Name: Kauser Ibrahim

Branch: BTech Stream: CSE Year: III

Team Member 3 Name: Khushal Chadda

Branch: BTech Stream: CSE Year: III

Team Member 4 Name: Shazia Fatima

Branch: BTech Stream: CSE Year: III

Team Member 5 Name: Mariyam Shaikh

Branch: BTech Stream: CSE Year: III

Team Mentor Name: N/A

Category: Academic Expertise: AI Domain Experience (in years): N/A